

15. A hybridoma selected from 5F8 (ECACC No.95121524), 2H6 (ECACC No.95121526) and 5D8 (ECACC No.95121527).

5 16. A monoclonal antibody selected from the monoclonal antibodies produced by the hybridomas according to claim 15.

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A DOCPHOENIX

# APPL PARTS

IMIS	_____
Internal Misc. Paper	_____
LET	_____
Misc. Incoming Letter	_____

371P \_\_\_\_\_  
 PCT Papers in a 371 Application  
 A... \_\_\_\_\_  
 Amendment Including Elections  
 ABST \_\_\_\_\_  
 Abstract  
 ADS \_\_\_\_\_  
 Application Data Sheet  
 AF/D \_\_\_\_\_  
 Affidavit or Exhibit Received  
 APPENDIX \_\_\_\_\_  
 Appendix  
 ARTIFACT \_\_\_\_\_  
 Artifact  
 BIB \_\_\_\_\_  
 Bib Data Sheet  
 CLM \_\_\_\_\_  
 Claim  
 COMPUTER \_\_\_\_\_  
 Computer Program Listing  
 CRFL \_\_\_\_\_  
 All CRF Papers for Backfile  
 DIST \_\_\_\_\_  
 Terminal Disclaimer Filed  
 DRW \_\_\_\_\_  
 Drawings  
 FOR \_\_\_\_\_  
 Foreign Reference  
 FRPR \_\_\_\_\_  
 Foreign Priority Papers  
 IDS \_\_\_\_\_  
 IDS Including 1449

NPL \_\_\_\_\_  
 Non-Patent Literature  
 OATH \_\_\_\_\_  
 Oath or Declaration  
 PET. \_\_\_\_\_  
 Petition  
 RETMAIL \_\_\_\_\_  
 Mail Returned by USPS  
 SEQLIST \_\_\_\_\_  
 Sequence Listing  
 SPEC \_\_\_\_\_  
 Specification  
 SPEC NO \_\_\_\_\_  
 Specification Not in English  
 TRNA \_\_\_\_\_  
 Transmittal New Application

CTNF \_\_\_\_\_  
 Count Non-Final  
 CTRS \_\_\_\_\_  
 Count Restriction  
 EXIN \_\_\_\_\_  
 Examiner Interview  
 M903 \_\_\_\_\_  
 DO/EO Acceptance  
 M905 \_\_\_\_\_  
 DO/EO Missing Requirement  
 NFDR \_\_\_\_\_  
 Formal Drawing Required  
 NOA \_\_\_\_\_  
 Notice of Allowance  
 PETDEC \_\_\_\_\_  
 Petition Decision

## OUTGOING

CTMS	_____
Misc. Office Action	_____

1449 \_\_\_\_\_  
 Signed 1449  
 892 \_\_\_\_\_  
 892  
 ABN \_\_\_\_\_  
 Abandonment  
 APDEC \_\_\_\_\_  
 Board of Appeals Decision  
 APEA \_\_\_\_\_  
 Examiner Answer  
 CTAV \_\_\_\_\_  
 Count Advisory Action  
 CTEQ \_\_\_\_\_  
 Count Ex parte Quayle  
 CTFR \_\_\_\_\_  
 Count Final Rejection

## INCOMING

AP.B \_\_\_\_\_  
 Appeal Brief  
 C.AD \_\_\_\_\_  
 Change of Address  
 N/AP \_\_\_\_\_  
 Notice of Appeal  
 PA.. \_\_\_\_\_  
 Change in Power of Attorney  
 REM \_\_\_\_\_  
 Applicant Remarks in Amendment  
 XT/ \_\_\_\_\_  
 Extension of Time filed separate

### Internal

SRNT \_\_\_\_\_  
 Examiner Search Notes  
 CLMPTO \_\_\_\_\_  
 PTO Prepared Complete Claim Set

ECBOX \_\_\_\_\_  
 Evidence Copy Box Identification  
 WCLM \_\_\_\_\_  
 Claim Worksheet  
 WFEE \_\_\_\_\_  
 Fee Worksheet

### File Wrapper

FWCLM \_\_\_\_\_  
 File Wrapper Claim  
 IIFW \_\_\_\_\_  
 File Wrapper Issue Information  
 SRFW \_\_\_\_\_  
 File Wrapper Search Info

PCT

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International Bureau

## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : C12N 7/01, A61K 39/40, C07K 16/12 // 19/00	A1	(11) International Publication Number: WO 97/29185 (43) International Publication Date: 14 August 1997 (14.08.97)
(21) International Application Number: PCT/SE97/00172 (22) International Filing Date: 5 February 1997 (05.02.97) (30) Priority Data: 9600434-6 6 February 1996 (06.02.96) SE (71)(72) Applicant and Inventor: MÅRDH. Sven [SE/SE]; Sjöbliden 13, S-590 77 Vreta Kloster (SE). (74) Agent: GÖTEBORGS PATENTBYRÅ AB; P.O. Box 5005, S-402 21 Göteborg (SE).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent: (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report.

(54) Title: RECOMBINANT PHAGES

(57) Abstract

The present invention relates to bacteriophages for use in the treatment or prophylaxis of bacterial infections, especially mucosal bacterial infections such as *Helicobacter pylori* infections. In particular, it relates to modified filamentous bacteriophages, e.g. M13 phages, for such use, which bacteriophages present at its surface a recombinant protein comprising: (i) a first component derived from a bacteriophage surface protein; and (ii) a second component comprising variable region sequences of an antibody to provide a bacterial antigen binding site, said second component rendering said bacteriophage capable of binding to and thereby inhibiting growth of bacterial cells involved in the etiology of said infection.